

AMENDMENTS TO THE CLAIMS

1. (Previously Amended) A method comprising:
coupling a first heat transfer plate to an electronic component in a first part of a portable computing device and a second heat transfer plate in a second part of the computing device;
sensing a temperature of the electronic component;
causing a fluid to move when a threshold temperature is detected; and
circulating the fluid between the first heat transfer plate and the second heat transfer plate.
2. (Original) The method of claim 1, further comprising:
coupling the first heat transfer plate to a closed loop tube.
3. (Original) The method of claim 1, wherein the fluid is one of water, oil, and liquid refrigerant.
4. (Original) The method of claim 2, wherein the tube is coupled to a pump.
5. (Original) The method of claim 2, further comprising:
coupling a disconnect to the tube.
6. (Canceled)
7. (Original) The method of claim 1, further comprising:
sensing the level of fluid in a fluid container.
8. (Original) The method of claim 1, further comprising:
removing heat at a rate in the range of about 10 to 50 watts.
9. (Original) The method of claim 1, wherein the electronic component is a processor.

10. (Original). The method of claim 1, wherein the fluid circulates through the tube at about a rate of 1 milliliters/second to 10 milliliters/second.

11. (Previously Amended) A heat exchanging system comprising:

a first heat transfer plate coupled to an electronic component located in a first part of a portable computing device and to a second heat transfer plate located in a second part of the portable computing device;

a tube coupling the first heat transfer plate to the second heat transfer plate;

a pump coupled to the tube;

a temperature sensor coupled to the tube and to the pump; and

a fluid for circulating through the first heat transfer plate and the second heat transfer plate.

12. (Original) The heat exchanging system of claim 11, wherein the heat transfer plate is coupled to a tube and the closed loop tube.

13. (Original) The heat exchanging system of claim 11, wherein the fluid is one of water, oil, and liquid refrigerants.

14. (Canceled)

15. (Original) The heat exchanging system of claim 11, further comprising:

a disconnect coupling secured to the tube.

16. (Canceled)

17. (Original) The heat exchanging system of claim 11, further comprising a fluid sensor for detecting when fluid is low in a fluid container.

18. (Original) The heat exchanging system of claim 11, wherein the heat transfer plate comprises a plate-fin type liquid heat transfer plate.

19. (Previously Amended) The heat exchanging system of claim 11, wherein heat is removed from the heat exchanging system at a rate of about 10 to 50 watts.
20. (Original) The heat exchanging system of claim 11, wherein a tube comprises one of rubber, plastic, aluminum, copper, and stainless steel.
21. (Original) The heat exchanging system of claim 11, wherein the electronic component is a processor.
22. (Original) The heat exchanging system of claim 11, wherein the fluid circulates through the tube at about a rate of 1 to 10 ml/sec.
23. (Previously Amended) An apparatus comprising:
a heat generating element disposed in a first part of a portable computing device;
a first heat transfer plate coupled to the heat generating element;
a second heat transfer plate disposed in a second part of the portable computing device;
a tube coupled to the first part and the second part of the portable computing device;
a pump coupled to the tube;
a temperature sensor coupled to the pump and the heat generating element; and
a fluid for circulating through the tube, the first part and the second part of the portable computing device, wherein the temperature sensor causes the fluid to flow in the tube when the temperature reaches a threshold temperature.
24. (Original) The apparatus of claim 23, wherein the fluid is one of water, oil, and liquid refrigerants.
25. (Canceled)
26. (Original) The apparatus of claim 23, wherein a fluid sensor is coupled to a fluid container.

27. (Original) The apparatus of claim 23, further comprising:
a disconnect coupling secured to at least an end of one of the first part and the second part.
28. (Previously Amended) An apparatus comprising:
a tube disposed in a portable computing device;
the tube coupled to a first heat transfer plate and to a heat generating device;
a pump coupled to the tube;
a temperature sensor coupled to the heat generating device and the pump; and
a fluid for flowing through the tube when the temperature sensor attains a threshold temperature.
29. (Original) The apparatus of claim 28, further comprising:
a fluid container coupled to the tube; and
a fluid sensor coupled to the fluid container.
30. (Original) The apparatus of claim 28, wherein the tube is disposed in a first part and a second part of the computing device.